

# What is a Function?

## Objectives.

*What is a Function?*

- *Deep understanding of multiple representations of functions, including graphs, tables, equations, function notation, words, arrow diagrams, applications, data, and a function machine*
- *Recognize functions in everyday life and appreciate the ubiquity of functions*
- *Use definition of function to argue whether something is a function using all different types of representations*
- *Understand the difference between a function, an expression, and an equation*
- *Define  $x$ - and  $y$ -intercepts of the graphs of functions*

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Learning outcomes:  
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